

## PATENT ABSTRACTS OF JAPAN

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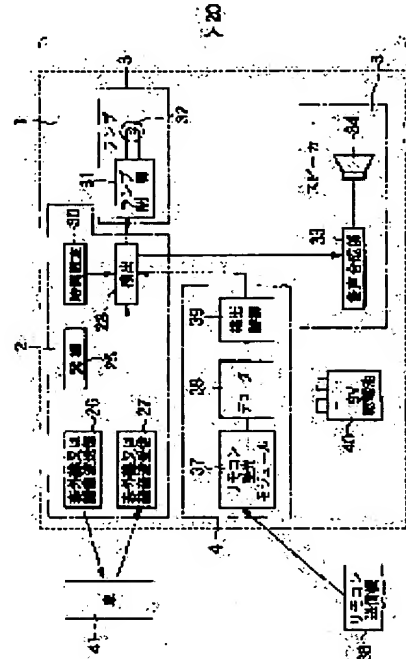
(71)Applicant : TOKUNAGA MASANORI  
(72)Inventor : TOKUNAGA MASANORI

### (54) PARKING AND STOPPING PREVENTIVE ALARM DEVICE

#### (57)Abstract:

**PROBLEM TO BE SOLVED:** To solve such a problem that un permitted or illegal parking is rampant to run into trouble.

**SOLUTION:** A move-in detecting sensor for detecting the move of a vehicle into a parking area and stopping detection when the vehicle is moved away from the parking area, an alarming part for alarming including flashing a lamp or generation a buzzer when the move-in detecting sensor detects the move-in of a vehicle and stopping alarming when the detection of the move-in detecting sensor is stopped, and an alarm canceling part for stopping alarming from the alarming part when an alarm canceler such as a remote controller of a key is operated are provided in an equipment body mountable in the parking area. The alarm canceling part can be remote-controlled via infrared or ultrasonic signals or operated with a key such as a special vehicle engine key.



### LEGAL STATUS

[Date of request for examination]  
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[Patent number]  
[Date of registration]  
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**CLAIMS**

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[Claim(s)]

[Claim 1] The stopping-and-parking prevention alarm characterized by providing the following. The penetration detection sensor which will stop detection if penetration of the car to a parking lot is detected and a car keeps away from a parking lot in the case (1) which can be attached to a parking lot (2) The alarm generating section which will suspend alarm generating if alarms, such as flashing of a lamp and generating of an audible tone, will be emitted if a penetration detection sensor (2) detects penetration of a car, and detection of a penetration detection sensor (2) stops (3) The alarm release section by which generating of the alarm from the alarm generating section (3) will be suspended if it is operated by alarm release devices, such as remote control and a key, (4)

[Claim 2] The stopping-and-parking prevention alarm according to claim 1 which the alarm release section (4) can operate by remote control with signals, such as infrared radiation and a supersonic wave, or is characterized by the operational thing by key called the ignition key and the exclusive key of an automobile.

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**DETAILED DESCRIPTION**

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[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the stopping-and-parking prevention alarm for preventing unapproved stopping and parking of the car to a parking lot.

[0002]

[Description of the Prior Art] From the former, there is that unapproved parking is done by others in the parking lot which he owns since a chronic parking lot is insufficient, and the parking lot which he borrows plentifully.

[0003]

[Problem(s) to be Solved by the Invention] When he wants to park a car, it becomes impossible to park a car, if unapproved parking is carried out at others when its parking lot is vacant. And if room of the person who did unapproved parking is known immediately, the automobile of unapproved parking can be moved, but since it cannot move immediately in the automobile of unapproved parking when room is not known, there is unarranging of it becoming impossible for him to use his parking lot. In this case, although calling a breakdown truck and moving compulsorily in the vehicle of illegal parking is also considered, time amount is taken until it can then use a parking lot by itself, and its parking lot cannot be used optionally by itself.

[0004]

[Means for Solving the Problem] the purpose of this invention — a parking lot — installing — him to a parking lot — penetration of the car of an except is caught certainly, an alarm is emitted, and it is in offering the stopping-and-parking prevention alarm which can prevent unapproved parking.

[0005] The stopping-and-parking prevention alarm of this invention according to claim 1 The penetration detection sensor 2 which will stop detection if penetration of the car to a parking lot is detected and a car keeps away from a parking lot in the case 1 which can be attached to a parking lot, The alarm generating section 3 which will suspend alarm generating if alarms, such as flashing of a lamp and generating of an audible tone, will be emitted if the penetration detection sensor 2 detects penetration of a car, and detection of the penetration detection sensor 2 stops, If it is operated by alarm release devices, such as remote control and a key, it will have the alarm release section 4 by which generating of the alarm from the alarm generating section 3 is suspended.

[0006] The stopping-and-parking prevention alarm of this invention according to claim 2 makes the alarm release section 4 operational in an stopping-and-parking prevention alarm according to claim 1 by infrared radiation, the thing which made remote operation possible with the signal of a supersonic wave, or the ignition key, the exclusive key and that key of an automobile.

[0007]

[Embodiment of the Invention] (Operation gestalt 1) The 1st operation gestalt of the stopping-and-parking prevention alarm of this invention is explained to a detail based on drawing 1 and drawing 2 . This stopping-and-parking prevention alarm 20 is equipped with the penetration detection sensor 2, the alarm generating section 3, and the alarm release section 4 as shown in drawing 1 , and they are built in the case 1 shown in drawing 2 .

[0008] The case 1 of drawing 2 has really cast the adapter plate 21 and case 22 which are fixed to the ground of a parking lot, a floor line, etc. The adapter plate 21 and the case 22 are made from resin, such as acrylic resin and strengthening resin, tempered glass, a metal, etc. An adapter plate 21 is a rectangular frame-like, the through-hole 23 has opened it in those four corners, and it drives a nail 24 into this through-hole 23, and enables it to have fixed it to the ground of a parking lot, a floor line, etc. Anchoring of an adapter plate 21 is also fixable with a screw, adhesives, etc.

[0009] Moreover, the interior has become in midair and the case 22 has attached the penetration detection sensor 2, the alarm generating section 3, and the alarm release section 4 in the inside. These penetration detection sensor 2, the alarm generating section 3, and the alarm release section 4 can also be attached in an adapter plate 21.

[0010] Said penetration detection sensor 2 detects penetration of the car to a parking lot, and for example, a reflective mold sensor is used for this. The reflective mold sensor is equipped with the receive section 27 which receives the transmitting section 26 which can transmit infrared radiation, a supersonic wave, etc., the infrared radiation reflected in a car, a supersonic wave, etc., and the detecting element 28 which detects penetration of a car based on reception in a receive section 27 based on the dispatch signal from the dispatch circuit 25 and the dispatch circuit 25, as shown in drawing 1 . A penetration vehicle starts from a parking lot, this penetration detection sensor 2 keeps away from the penetration detection sensor 2, and if a reflective signal is no longer detected, detection by the detecting element 28 will suspend it automatically. Originally, a detecting element 28 operates, shortly after a receive section 27 detects the car of unapproved parking, but even if human being and an animal then approach a parking lot and the penetration detection sensor 2 operates, from the alarm generating section 3, an alarm is generated and it incorrect-operates. In order to prevent this, after it connects the time setting section (for example, timer) 30 to a detecting element 28 and a receive

section 27 detects a car, human being, an animal, etc., a detecting element 28 operates and it is made to be generated from the alarm generating section 3 in the alarm after predetermined time (several seconds – several minutes) progress. The time amount is freely changeable in the time setting section 30.

[0011] Said alarm generating section 3 is equipped with the loudspeaker 34 which outputs the lamp control section 31 which operates in response to the detecting signal generated from the detecting element 28 of the penetration detection sensor 2, the lamp 32 which lights up or blinks based on the control signal from this control section 31, the speech synthesis section 33 which operates in response to the detecting signal generated from a detecting element 28, and the sound signal from there. A buzzer, a bell, etc. can also be used instead of the speech synthesis section (for example, voice IC) 33 or a loudspeaker 34. Moreover, it can also consider only as either, such as voice or a buzzer against which it appeals the lamp of which it complains to vision to an acoustic sense. In any case, in order to make easy to expose outside light generated from the alarm generating section 3, the whole covering 22 or its part is made into transparence, or in order to make an audible tone, voice, etc. easy to come out of to the exterior of a case 1, opening of the through-hole 35 has been carried out to covering 22.

[0012] Said alarm release section 4 stops alarm generating from the alarm generating section 3. Since it cannot distinguish whether the car which advanced is a car of unapproved parking although the penetration detection sensor 2 detects penetration of the car to a parking lot, or it is a car (it is hereafter described as a normal car) with the right to park, all the cars that advance to a parking lot are detected, and even if a normal car advances, an alarm occurs. Then, if the driver of a normal car operates it by the ignition key of that automobile at the time of parking of a normal car or the remote control device of the dedication which that driver is carrying is operated, actuation of the alarm generating section 3 is stopped compulsorily, and it enables it to have stopped alarm generating in this example. The alarm-release section 4 shown in drawing 1 detects the signal from the decoder (the decoder) 38 and the decoder 38 which decode the signal outputted from the remote-control light-receiving module 37 which receives the signal transmitted from various kinds of remote-control transmitters 36, such as an infrared transmitter which generates an infrared signal, and an ultrasonic transmitter which generates an ultrasonic signal, and operates, and this module 37, and consists of detection control sections 39 which control actuation of the detecting element 28 of said alarm generating section 3. This alarm generating section 3 will stop compulsorily the alarm which cancels actuation of the detecting element 28 under actuation compulsorily, and is generated from the alarm generating section 3, if the signal transmitted from the remote control transmitter 36 is received. The alarm release section 4 may be except what is shown in drawing 1. It seems that for example, a mechanical switch serves as OFF and actuation of a detecting element 28 may be stopped if it is operated by the ignition key of a normal car, and the discharge key prepared for dedication. This alarm release section 4 is attached towards the exterior of a case 1 so that it can be operated from the outside, or so that it may be easy to receive the signal transmitted from the remote control transmitter 36 and may become.

[0013] The power source for driving them is required for said penetration detection sensor 2, the alarm generating section 3, and the alarm release section 4. Although a commercial AC power, a charge-type dc-battery, a solar battery, etc. can be used as the power source, in drawing 1 and 2, an alkaline cell and other dry cells 40 are used.

[0014] Actuation of the stopping-and-parking prevention alarm 20 of this operation gestalt is explained based on the block diagram of drawing 1. This stopping-and-parking prevention alarm 20 is beforehand installed in the parking lot, turns ON a power source and changes the penetration detection sensor 2, the alarm generating section 3, and the alarm release section 4 into the standby condition which can always operate. It is performed as follows when the driver of a normal car parks a car. A remote control signal is transmitted from the remote control transmitter 36 which the driver is carrying, and the detecting element 28 of the alarm generating section 3 is turned OFF, or a power source is turned OFF, and even if it makes a normal car advance into a parking lot, an alarm is made not to be generated from the alarm generating section 3.

[0015] If the car of unapproved parking advances into a parking lot and a car approaches the penetration detection sensor 2 The infrared radiation or the supersonic wave by which outgoing radiation is carried out reflects in the car 41 from the transmitting section 26 of the penetration detection sensor 2. It is received by the receive section 27 of this sensor 2, a detecting element 28 operates after the time amount set up in the time setting section 30 above, the alarm generating section 3 operates, a lamp 32 lights up or blinks, or an alarm tone is generated from a loudspeaker 34. Suppose "please do not park a car", "it is unapproved parking", etc. as alarm tone voice in this case. If a parking lot is left parking a car 41 in this condition, a lamp 32 will continue blinking and the alarm tone from a loudspeaker 34 will continue occurring. If you notice this alarm and a car 41 is taken out from a parking lot, the car detection by the penetration detection sensor 2 will be canceled, a lamp 32 will put out the light, and the alarm tone from a loudspeaker 34 will die down.

[0016] (Operation gestalt 2) The 2nd operation gestalt of the stopping-and-parking prevention alarm of this invention is explained to a detail based on drawing 3 and drawing 4. The fundamental configuration of this operation gestalt is the same as that of said operation gestalt 1. Forming an aperture 42 in the outside of a lamp 32, and having made it have made the case 1 into the round shape and the light of a lamp 32 leak to the outside of a case 1 differs from having made the case 1 removable at the adapter plate 21. In this case, an adapter plate 21 is made into a griddle, the bottom plate 43 of a case 1 is made into a vertical bilayer, and the disc-like rubber plate 44 and the disc-like magnet 45 are attached in it. The rubber plate 44 is for making it a blemish not attached to a car, even if it is made to be injured even if people apply a guide peg, and a car hits. A magnet 45 is for making the location gap of the case 1 hard to carry out. In case a case 1 is attached in an adapter plate 21, if fitting of the heights 46 of an adapter plate 21 and the crevice 47 of a magnet 45 is carried out, it will much more be hard coming to carry out the location gap of the case 1. With this operation gestalt, usage of attaching a case 1 in an adapter plate 21, and setting a power source to ON when a normal car parks a car at a parking lot, and removing the case 1 from the adapter plate 21 and coming out from a parking lot for example, can also be carried out. Thus, a case 1 is demounted and it becomes easy possible then to maintain [ of repair of a failure part, a

charge, a changing battery, etc., etc. ]. A lock can be prepared in an adapter plate 21 and a case 1, and locking and unlocking being possible, then the theft of a case 1 can be prevented for the lock by the ignition key, an exclusive key, etc.

[0017]

[Effect of the Invention] Since the stopping-and-parking prevention alarm of this invention according to claim 1 continues generating an alarm continuously while detecting unapproved parking automatically and carrying out unapproved parking, it is hard coming to carry out unapproved parking of it, and it can prevent unapproved parking certainly. For this reason, it is lost that it becomes impossible to park a car during going out of a normal car when unapproved parking will be carried out and the normal car has returned from going out to the vacant parking lot. Moreover, since a car can be parked after canceling alarm generating, when parking a normal car, it can usually pass along a normal car and it can be parked.

[0018] In the stopping-and-parking prevention alarm of this invention according to claim 2, since only a person with an ignition key, an exclusive key, etc. of remote control or an automobile can operate the alarm release section, those who do unapproved parking cannot operate an stopping-and-parking prevention alarm freely, cannot cancel the actuation, and cannot do unapproved parking.

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**TECHNICAL FIELD**

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**PRIOR ART**

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[Description of the Prior Art] From the former, there is that unapproved parking is done by others in the parking lot which he owns since a chronic parking lot is insufficient, and the parking lot which he borrows plentifully.

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**EFFECT OF THE INVENTION**

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**TECHNICAL PROBLEM**

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**MEANS**

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[0006] The stopping-and-parking prevention alarm of this invention according to claim 2 makes the alarm release section 4 operational in an stopping-and-parking prevention alarm according to claim 1 by infrared radiation, the thing which made remote operation possible with the signal of a supersonic wave, or the ignition key, the exclusive key and that key of an automobile.

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[0011] Said alarm generating section 3 is equipped with the loudspeaker 34 which outputs the lamp control section 31 which operates in response to the detecting signal generated from the detecting element 28 of the penetration detection sensor 2, the lamp 32 which lights up or blinks based on the control signal from this control section 31, the speech synthesis section 33 which operates in response to the detecting signal generated from a detecting element 28, and the sound signal from there. A buzzer, a bell, etc. can also be used instead of the speech synthesis section (for example, voice IC) 33 or a loudspeaker 34. Moreover, it can also consider only as either, such as voice or a buzzer against which it appeals the lamp of which it complains to vision to an acoustic sense. In any case, in order to make easy to expose outside light generated from the alarm generating section 3, the whole covering 22 or its part is made into transparence, or in order to make an audible tone, voice, etc. easy to come out of to the exterior of a case 1, opening of the through-hole 35 has been carried out to covering 22.

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park, all the cars that advance to a parking lot are detected, and even if a normal car advances, an alarm occurs. Then, if the driver of a normal car operates it by the ignition key of that automobile at the time of parking of a normal car or the remote control device of the dedication which that driver is carrying is operated, actuation of the alarm generating section 3 is stopped compulsorily, and it enables it to have stopped alarm generating in this example. The alarm-release section 4 shown in drawing 1 detects the signal from the decoder (the decoder) 38 and the decoder 38 which decode the signal outputted from the remote-control light-receiving module 37 which receives the signal transmitted from various kinds of remote-control transmitters 36, such as an infrared transmitter which generates an infrared signal, and an ultrasonic transmitter which generates an ultrasonic signal, and operates, and this module 37, and consists of detection control sections 39 which control actuation of the detecting element 28 of said alarm generating section 3. This alarm generating section 3 will stop compulsorily the alarm which cancels actuation of the detecting element 28 under actuation compulsorily, and is generated from the alarm generating section 3, if the signal transmitted from the remote control transmitter 36 is received. The alarm release section 4 may be except what is shown in drawing 1. It seems that for example, a mechanical switch serves as OFF and actuation of a detecting element 28 may be stopped if it is operated by the ignition key of a normal car, and the discharge key prepared for dedication. This alarm release section 4 is attached towards the exterior of a case 1 so that it can be operated from the outside, or so that it may be easy to receive the signal transmitted from the remote control transmitter 36 and may become.

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[0015] If the car of unapproved parking advances into a parking lot and a car approaches the penetration detection sensor 2 The infrared radiation or the supersonic wave by which outgoing radiation is carried out reflects in the car 41 from the transmitting section 26 of the penetration detection sensor 2. It is received by the receive section 27 of this sensor 2, a detecting element 28 operates after the time amount set up in the time setting section 30 above, the alarm generating section 3 operates, a lamp 32 lights up or blinks, or an alarm tone is generated from a loudspeaker 34. Suppose "please do not park a car", "it is unapproved parking", etc. as alarm tone voice in this case. If a parking lot is left parking a car 41 in this condition, a lamp 32 will continue blinking and the alarm tone from a loudspeaker 34 will continue occurring. If you notice this alarm and a car 41 is taken out from a parking lot, the car detection by the penetration detection sensor 2 will be canceled, a lamp 32 will put out the light, and the alarm tone from a loudspeaker 34 will die down.

[0016] (Operation gestalt 2) The 2nd operation gestalt of the stopping-and-parking prevention alarm of this invention is explained to a detail based on drawing 3 and drawing 4. The fundamental configuration of this operation gestalt is the same as that of said operation gestalt 1. Forming an aperture 42 in the outside of a lamp 32, and having made it have made the case 1 into the round shape and the light of a lamp 32 leak to the outside of a case 1 differs from having made the case 1 removable at the adapter plate 21. In this case, an adapter plate 21 is made into a griddle, the bottom plate 43 of a case 1 is made into a vertical bilayer, and the disc-like rubber plate 44 and the disc-like magnet 45 are attached in it. The rubber plate 44 is for making it a blemish not attached to a car, even if it is made to be injured even if people apply a guide peg, and a car hits. A magnet 45 is for making the location gap of the case 1 hard to carry out. In case a case 1 is attached in an adapter plate 21, if fitting of the heights 46 of an adapter plate 21 and the crevice 47 of a magnet 45 is carried out, it will much more be hard coming to carry out the location gap of the case 1. With this operation gestalt, usage of attaching a case 1 in an adapter plate 21, and setting a power source to ON when a normal car parks a car at a parking lot, and removing the case 1 from the adapter plate 21 and coming out from a parking lot for example, can also be carried out. Thus, a case 1 is demounted and it becomes easy possible then to maintain [ of repair of a failure part, a charge, a changing battery, etc., etc. ]. A lock can be prepared in an adapter plate 21 and a case 1, and locking and unlocking being possible, then the theft of a case 1 can be prevented for the lock by the ignition key, an exclusive key, etc.

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**DESCRIPTION OF DRAWINGS**

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**[Brief Description of the Drawings]**

[Drawing 1] The circuit block diagram of the 1st operation gestalt of the stopping-and-parking prevention alarm of this invention.

[Drawing 2] The perspective view showing the appearance of the 1st operation gestalt of the stopping-and-parking prevention alarm of this invention.

[Drawing 3] The perspective view showing the appearance of the 2nd operation gestalt of the stopping-and-parking prevention alarm of this invention.

[Drawing 4] The sectional view of the stopping-and-parking prevention alarm of drawing 3 .

**[Description of Notations]**

- 1 Case
- 2 Penetration Detection Sensor
- 3 Alarm Generating Section
- 4 Alarm Release Section

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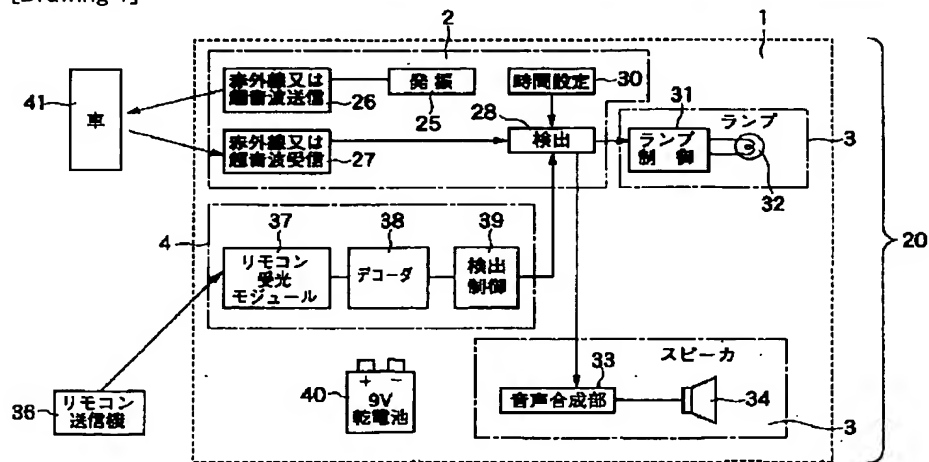
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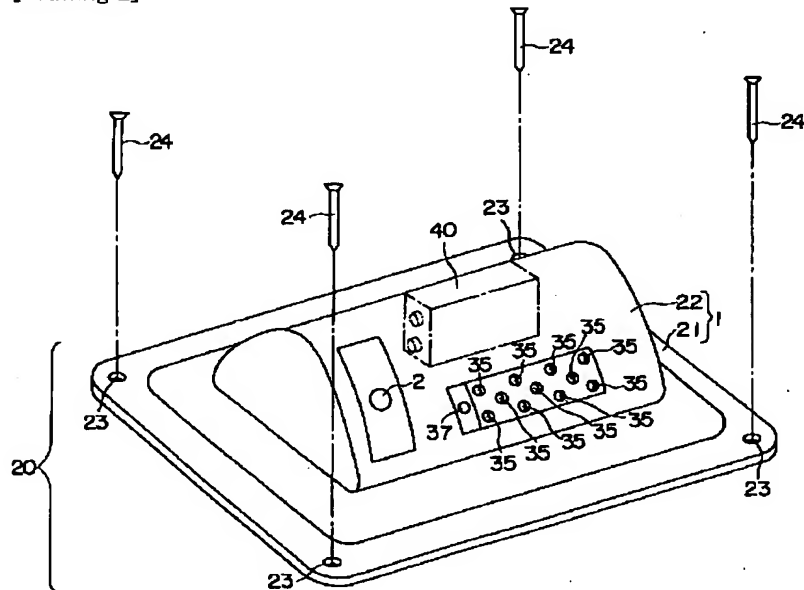
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DRAWINGS

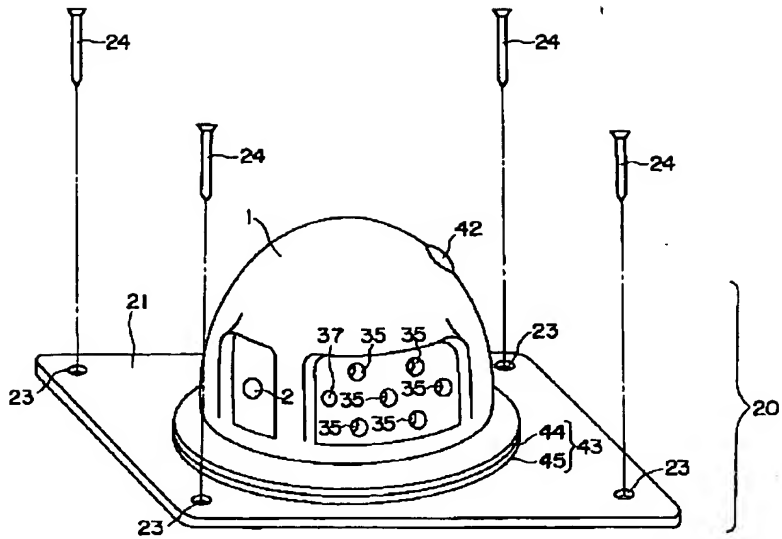
[Drawing 1]



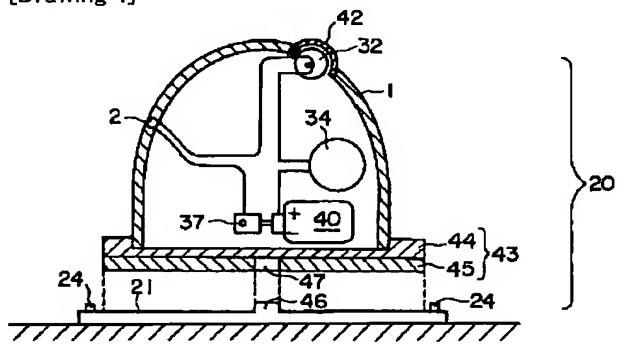
[Drawing 2]



[Drawing 3]



[Drawing 4]



[Translation done.]